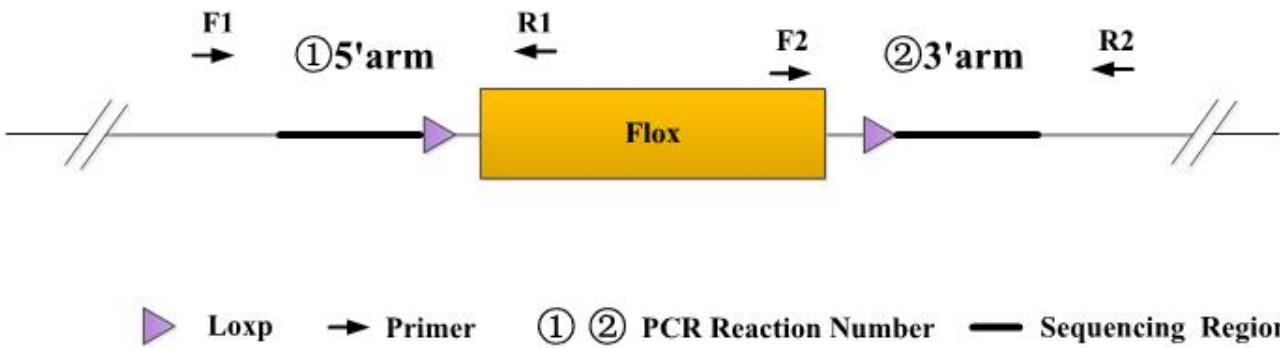




## Genotyping Report

Strain ID	T010976	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name			CLPP

### 1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.

Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.

Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

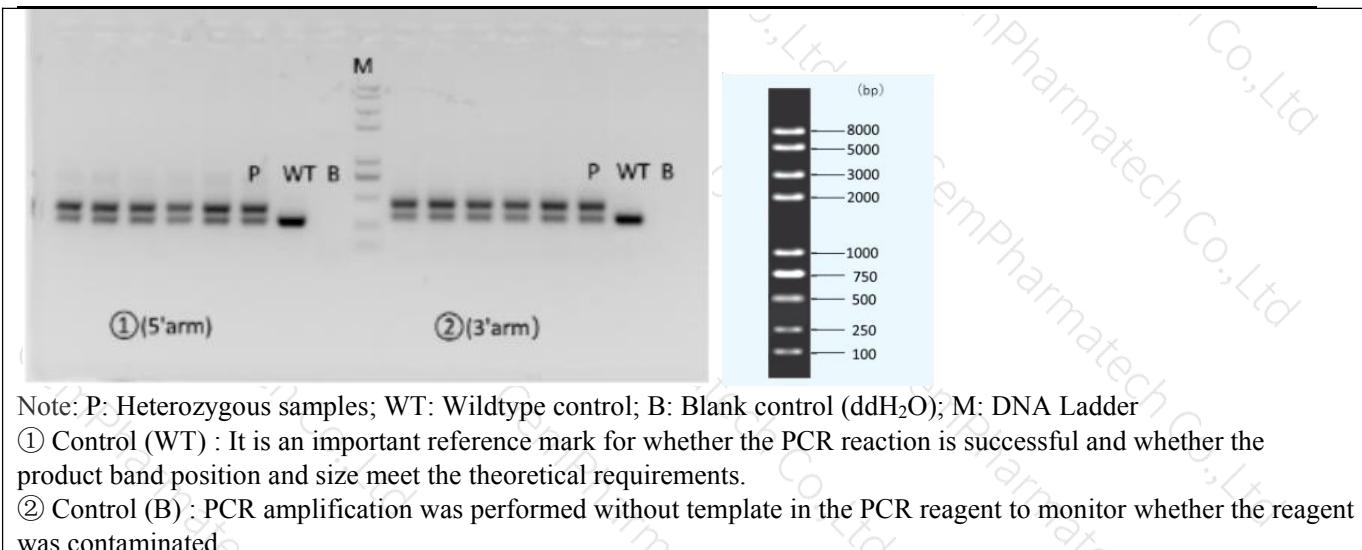
Note: The sizes of WT and Targeted band are shown below.

### 2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	T010976(P2)-F1	CCATAGTCTGCTGTTGTCAGCCAT	WT: 281bp Targeted: 386bp
	R1	T010976(P2)-R1	GCCCTGGGAACCAAGGAATT	
②(3'arm)	F2	T010976(P2)-F2	TGTGCTGCCATGCCTACTTGT	WT: 332bp Targeted: 438bp
	R2	T010976(P2)-R2	AGAACTCACTCTGTAGACCAGGCTGT	

### 3. Gel Image & Conclusion





#### 4. PCR Condition

(Generally recommend to use Vazyme P222; if the sequences contain special structures such as  $\text{GC}\% \geq 60\%$  or  $\text{GC}\% \leq 40\%$ , recommend to use Vazyme P515.)

##### PCR Reaction Component

Seg.	reaction component	Volume ( $\mu\text{l}$ )
1	2 $\times$ Rapid Taq Master Mix(Vazyme P222) or 2 $\times$ Phanta Max Master Mix (Vazyme P515)	12.5
2	ddH <sub>2</sub> O	9.5
3	Primer A(10pmol/ $\mu\text{l}$ )	1
4	Primer B(10pmol/ $\mu\text{l}$ )	1
5	Template(20~80ng/ $\mu\text{l}$ )	1

##### PCR program I priority selection

Seg.	Temp.	Time	Cycle
1	95 °C	5min	20×
2	98 °C	30s	
3	65 °C * (-0.5 °C/cycle)	30s	
4	72 °C	45s*	
5	98 °C	30s	15×
6	55 °C *	30s	
7	72 °C	45s*	
8	72 °C	5min	
9	10 °C	hold	

##### PCR program II the second choice



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Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98°C	30s	35x
3	58°C*	30s	
4	72°C	45s*	
5	72°C	5min	
6	10°C	hold	

Note\*: Annealing temperature and extension time can be determined according to the actual amplification situation and amplification enzyme efficiency.